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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,528	08/22/2003	Shunichi Matsushita	238546US8CIP	8105
22850 7:	590 03/10/2006		EXAMINER	
•	VAK, MCCLELLAND,	HELLNER, MARK		
	1940 DUKE STREET ALEXANDRIA, VA 22314			PAPER NUMBER
			3663	
			DATE MAIL ED. 02/10/2007	

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Please find below and/or attached an Office communication concerning this application or proceeding.

- .		Application No.	Applicant(s)		
		10/645,528	MATSUSHITA ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Mark Hellner	3663		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)	Responsive to communication(s) filed on	<u>_</u> .			
/—	· —	s action is non-final.			
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-78 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) 1-78 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.			
Applicati	on Papers				
10)	The specification is objected to by the Examinative The drawing(s) filed on is/are: a) acceptable acceptant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination.	cepted or b) objected to by the lead rawing(s) be held in abeyance. See ction is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachmen	t(s) ee of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)		
2) Notice 3) Information	the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date	Paper No(s)/Mail Da			

Application/Control Number: 10/645,528

Art Unit: 3663

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 36 and 71 are rejected under 35 U.S.C. 102(e) as being anticipated by Islam (6,052,393).

Figure 20a of Islam discloses a depolarized light source comprising: at least one source of pumping light (230), the source being configured (Linearly Polarized) to produce pumping light having a predominant polarization state; at least one depolarizer (240) comprising a birefringent optical component (polarization maintaining fiber) havin a principle axis oriented about 45 degrees (launch at 45) with respect to the predominant polarization state and coupled to receive the pumping light; and a Raman gain medium (Raman Amplifier) configured to receive the pumping light and amplify signals via stimulated Raman scattering.

The limitation that the output pumping beam have a degree of polarization in the range of 1 to 40 percent is deemed inherent in view of the figure 20a device having all claimed structural limitations.

The structure recited above reads on claims 1, 36 and 71.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims s 2-35, 37-70 and 72-78 are rejected under 35 U.S.C. 103(a) as being unpatentable over Islam .

Official notice is taken that the principles of stimulated Raman scattering were well known to the skilled artisan to have been applicable to all types of communication fiber such as non-zero dispersion shifted fiber or dispersion shifted fiber with the direction of pumping being non-critical. As a result, the limitation of claims 2, 3, 4, 15, 16, 23 and 29 are deemed obvious.

Claims 5-14, 17-22, 24-28 and 30-35 recite inherent properties of the pump source disclosed by figure 20a of Islam.

Claims 37-70 and 72-78 are rejected for the reasons applied to claims 2-35.

Applicant's arguments with respect to claims 1-78 have been considered but are most in view of the new ground(s) of rejection.

This action is NON-FINAL

Any inquiry concerning this communication should be directed to Mark Hellner at telephone number 571 272 6981.

Mark Hellner

Primary Examiner

AU 3663

Mark Iblion